

WHAT IS CLAIMED IS:

1. A rotary connector comprising:

a stationary housing having a cylindrical portion;

a movable housing having a cylindrical portion and provided

5 on said stationary housing so as to be rotatable relatively thereto;
and

a flexible cable accommodated within a housing section formed
between said stationary housing and said movable housing, wherein

both ends of said flexible cable are fixed to said stationary
10 housing and said movable housing, respectively, and said rotary
connector further comprises temperature detection means for
detecting a temperature of said flexible cable, said temperature
detection means being exposed within said housing section.

2. The rotary connector according to claim 1, wherein said
15 temperature detection means is provided in one of said cylindrical
portion of said stationary housing and said cylindrical portion
of said movable housing.

3. The rotary connector according to claim 1, wherein said
rotary connector further comprises a holding member for holding
20 said temperature detection means and said holding member is provided
in one of said cylindrical portion of said stationary housing and
said cylindrical portion of said movable housing.

4. The rotary connector according to claim 1, wherein said
temperature detection means is provided near one of fixing portions
25 located between said flexible cable and one of said stationary

housing and said movable housing.

5 5. The rotary connector according to claim 1, wherein said rotary connector further comprises a pressing member provided to face said temperature detection means and press said flexible cable against said temperature detection means.

10 6. The rotary connector according to claim 5, wherein said pressing member has a structure independent of said stationary housing and said movable housing and is provided in one of said cylindrical portion of said stationary housing and said cylindrical portion of said movable housing.

 7. The rotary connector according to claim 5, wherein said pressing member includes an elastic portion having elasticity and presses said flexible cable via said elastic portion.

15 8. The rotary connector according to claim 1, wherein said temperature detection means is composed of a temperature sensor.

 9. The rotary connector according to claim 7, wherein said temperature detection means is composed of a temperature sensor.

 10. The rotary connector according to claim 1, wherein said temperature detection means is composed of a thermistor.

20 11. The rotary connector according to claim 7, wherein said temperature detection means is composed of a thermistor.

 12. A rotary connector comprising:

 a stationary housing;

25 a movable housing provided on said stationary housing so as to be rotatable relatively thereto;

a flexible cable accommodated within a housing section formed between said stationary housing and said movable housing; and

lead blocks connected to both ends of said flexible cable, respectively, wherein

5 said rotary connector further comprises temperature detection means for detecting a temperature of said flexible cable near a connection part located between said flexible cable and one of said lead blocks.

10 13. The rotary connector according to claim 12, wherein said temperature detection means is provided on an area of said flexible cable, said area corresponding to a position of said flexible cable being placed on said lead block.

14. The rotary connector according to claim 12, wherein said temperature detection means is provided in said lead block.

15 15. The rotary connector according to claim 12, wherein said temperature detection means is composed of a temperature sensor.

16. The rotary connector according to claim 13, wherein said temperature detection means is composed of a temperature sensor.

20 17. The rotary connector according to claim 14, wherein said temperature detection means is composed of a temperature sensor.

18. The rotary connector according to claim 12, wherein said temperature detection means is composed of a thermistor.

19. The rotary connector according to claim 13, wherein said temperature detection means is composed of a thermistor.

25 20. The rotary connector according to claim 14, wherein said

temperature detection means is composed of a thermistor.